	PVAADKEKS-HEEKNOEALND-PKKHVIVAMAPSVRTAMGELFKMGYGKD	247
CaI	PVAALSEKS-HMDROKNALNA-PEKHVIVAMAPSVRASIGELENMGFCVD	248
CpI Dd	PENAMY BAOSWUPE WERKLKD - GRVKCIAMPAPAVRY ALGDARGMPVGSV	98
	ATDAVPHWKLADEEDKPKDG-GRKVELAQVAPAVRVAHAESEGLAPGAV	113
CrHydA2		110
CrHydA1		
CaI		289
CpI	A LGMB A L Y LEGO LG LEGO L NEGO LEGO LEGO LEGO LEGO LEGO LEGO LEGO L	290
Dd	TTGKMLAANOKUGBAHCWDTERTDDVDDWDEGBBBBBBBBKKKSD	142
CrHydA2	SPERMAT GRANGER ORDET LEADEL SEE GREEN HERKEHLEAHPHSD	163
CrHydA1	TPKQLAEGERRLGFDEVFDTLFGADLTIMEEGSELEHRETEHLEAHPHSD	160
- •		
CaI		339
CpI	СБ期日内西田日日日日日内期間 R Q期日 N Y 西日日日日 N N 日日日日 L D I F G T A S K L Z Y P S I S	340
Dđ	MPHPOPTSCCPGWQKYABTYYPELLPHESTCKSPIGMNGALAKTYGAERM	192
CrHydA2	EPTPMETSCOPGWWAMMEKSZPELEPPWSSCKSPQMMMGAMVKTYLSEKQ	213
CrHydA1	EPEPMETSCCPGWIAMERKSYPDLIPYVSSCKSPOMMLAAMVKSYLAEKK	210
_		
CaI	- COM	386
CpI	GHD DE N UFT V TO ME CTSKKFEADR PQMEKDG 直RD ED A V FT PRELAKM	387
Dđ	KYDEKQÜYTVİŞMECIAKKYEĞLEPELKSSĞ MEDŞDATATTERELAYM	239
CrHydA2	G閩PAKD閩VMVS閩MPC VRKQGEADREWFC VSE - PG VRDڧD H V承T TABLIGN I	262
CrHydA1	G種APROMVMV質型MPCTRKQSBADROWFCVDADPTもRQQDHV電TEVBIGNI	260
CaI	TKDAKIKRADLEDGE VDPAMGTYSGAGAIFGATGGVMEAAIRSAKDBAEN	436
CpI	IKDAKIPBAKLEDSEADPAMGEYŞGAGAIFGATGGVMEAALRŞAKDŞAEN	437
Dd	TKKAGIDEAKDPDGKRDSLMGES與GGAT與EGVTGGVMEAALRFAYE與WTG	289
CrHydA2	EKERGINTPELPDSDWDQPLGLGSGAGVTEGTTGGVMEAALRWAYEEVTK	312
CrHydA1	EKERGINTAELPEGEWDNPMGVGSGAGVEFGTTGGVMEAALRTAYETFTG	310
		461
CaI	KELENVDYTEVRGEKGIKEAEVELA	461
CpI	AELEDEEYKQVRGENGIKEAEVEIN	462
Dđ.	KKPDSWDFKAVRGEDGIKEATVNVG	314
CrHydA2	EPTPRINLSEVRGEDGIKEASVTEVPAPGSKFAELVAERLAHKVEEAAAA	362 360
CrHydA1	TPIPRUSLSEVRGMDGIKETNETMVPAPGSKFBELLKHRAAARAEAAAHG	300
	図出版の 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	482
CaI	GNKBNVAVINGESNEFEEMKS	483
CpI	のかが置から間には、100mmによるとしては、100mmである。 これには、100mmでは、100mmでは、100mmでは、100mmである。 100mmである。 100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、100mmでは、	335
Dd	EAAAAVEGAVKPPIAYDGGQGPSTDDGKGGLKIRVAVXHGXKREKQVCDD	412
CrHydA2	EAAAAVEGAVKPPIAYDGGQGFSTDDGKGGLKERMAMMMMCMCMAKKEIGK	401
CrHydA1	TPGPLAWDGGAGFTSEDGRGGITHRVAVXNGEGNAKKLITK	40T
<u> </u>		532
CaI	GKMNEKQYHENEVMACPGGCENGGGQPHVNALDRENVDYRKLRAS VLYNQ	533
CpI .	GMINEKQYHELEVMACHGGCVNGGGQPHVNPKDLEKVDIKKVRASWLYNQ VKAGKSPYHELEYMACPGGCVCGGGQPVMPGVLEA	370
Dd		457
CrHydA2	MVSGEAKYDFVEIMACPAGCVGGGGQPRSTDKQITQKRQAMLYDL MQAGEAKYDFVEIMACPAGCVGGGGQPRSTDKAITQKRQAMLYNL	446
CrHydA1	- MOACINAKWDINWINININININININININININININININININI	220

Fig. 1A

## BEST AVAILABLE COPY

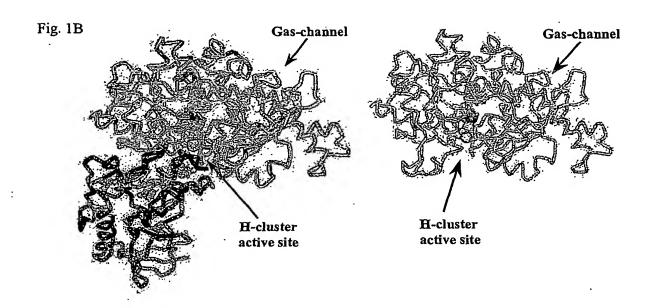


Fig. 2

Cr HydAl CpI	AAPAAEAPLSHVQQALAELAKPKDDPTRKHVCVQVAPAVRVAIAETLGLAPGATTPKQLA CIIACPVAALSEKSHMDRVKNALNAPEKHVIVAMAPSVRASIGELFNMGFGVDVTGKIY	60 59
Cr HydAl CpI	EGLRRLGFDEVFDTLFGADLTIMEE SEL HRTTEDEPLPMFTSCCPGWIAMLEKSYPDL TALRQLGFDKIFDINFGADMTIMEE SEL OR ENNGPFPMFTSCCPGWVRQAENYYPEL	
Cr HydAl CpI	IPYVSSCKSPQMMLAAMVKSYLAEKKGIAPKDMVMVSIMPCTRKQSEADRDWFCVDADPT LNNLSSAKSPQQIFGTASKTYYPSISGLDPKNVFTVTVMPCTSKKFEADRPQMEKDG	180 176
Cr HydAl CpI	LRQLDHVITTVELGNIFKERGINLAELPEGEWDNPMGVGSGAGVLFGTTGGVMEAALR ALREALRDIDAVITTRELAKMIKDAKIPFAKLEDSEADPAMGEYSGAGAIFGATGGVMEAALR A	240 236
Cr HydAl CpI	YEMTGTPLPRLSLSEVRGMDGIKETNITMVPATLRVAYANGLGNAKKLITKMQAGEAKY KDEZENAELEDIEYKQVRGLNGIKEAEVEINNNKYNVAVENGASNLFKFMKSGMINEKQY	300 296
Cr HydAl CpI	DE MACPAGCVGGGGQPRSTDKAITQKRQAALYNLDEKSTLRRSHENPSIRELYDTYL HELE MACHGGCVNGGGQPHVNPKDIKKVRASVLYNQDEHLSKRKSHENTALVKMYQNYF	360 356
Cr HydAl CpI	GEPLGHKAHELLHTHYVAGGVEEKDEKK 388 GKPGEGRAHEILHFKYKK 374	

Fig. 3

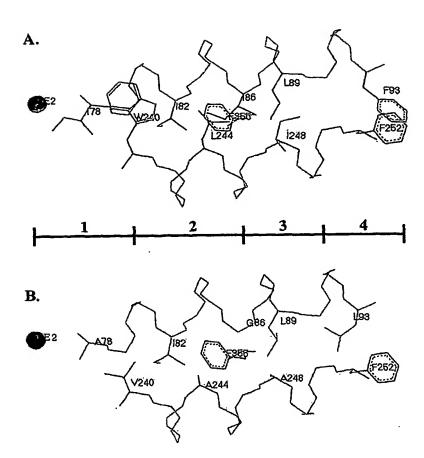


Fig. 4

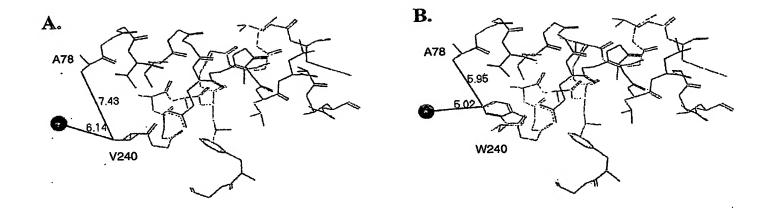


Fig. 5

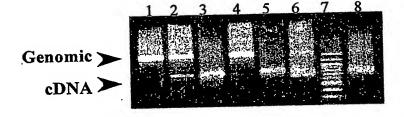


Fig. 6

H<sub>2</sub> Electrode Assay

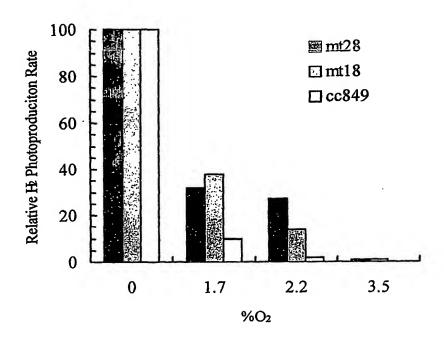


Fig. 7

MV Assay 100 mt28 🖾 mt18 80 Relative He Evolution Rate □ cc849 60 40 20 0 0 1 2 4 %O₂

Fig. 8

	XhoI	EcoRI	
pBSK —	HydA	H cDNA Belleting to the second	
plasmid backbone			

Fig. 9

	HydA1 promoter	HydA1 cDNA	Ble <sup>r</sup>	
DQIZ				
pBSK plasmid backbone				

## This Page is inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

X	BLACK BORDERS
X	IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
X	FADED TEXT OR DRAWING
X	BLURED OR ILLEGIBLE TEXT OR DRAWING
X	SKEWED/SLANTED IMAGES
`a	COLORED OR BLACK AND WHITE PHOTOGRAPHS
	GRAY SCALE DOCUMENTS
	LINES OR MARKS ON ORIGINAL DOCUMENT
	REPERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
	OTHER:

IMAGES ARE BEST AVAILABLE COPY.
As rescanning documents will not correct images problems checked, please do not report the problems to the IFW Image Problem Mailbox